

VLBP - Launiupoki Beach Park

Date 1st used	Launiupoko Beach Park VLBP (VMKL, VUKU)		Survey Dates					GPS				
			1/9/95	9/3/95	2/20/96	8/13/96	1/10/97	7/7/97	1/15/98	7/7/98	1/14/99	6/29/99
1/9/95	RP#1	Telephone pole	RP1	TELPOLE	-	-	-	-	-	-	-	-
1/9/95	RP#2	LNDWD palm	-	-	-	-	-	-	-	-	-	-
1/9/95	RP#3	SWD palm	-	-	-	-	-	-	-	-	-	-
1/9/95	RP#4	on breakwater	RP4	-	-	-	-	-	-	-	-	-
1/9/95	RP#5	crack near restrooms	RP5	-	-	-	-	-	-	-	-	-
1/9/95	RP#6	nail in curb	RP6	-	SPR1	SRP	-	-	-	-	-	-
1/9/95	RP#7	GPS1 PK nail in pkg lot	RP7	-	SPR3	GPS	SRP	GPS1	GPS	-	-	-
1/9/95	RP#8	PK nail, LNDWD shoulder	RP8	-	-	-	-	-	-	-	-	-
1/9/95	RP#9	"X" GPS2 on breakwater	RP9	GROIN	SRP2	-	-	GPS2	GPS	-	GPS	-
9/3/95	RP#10	PK nail on palm, ON	-	*FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
9/3/95	RP#11	PK nail in "W" tree, ON	-	*WTREE	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP
7/7/97	RP#12	PK nail on path, ON	-	-	-	-	-	*GPS3	GPS3	GPS	-	-
1/14/99	RP#13	Center top of post	-	-	-	-	-	-	-	-	*SRP	-
	Start of Line		base.pole	base.RP11	Indwd.rail	base.RP11	base.RP11	base.RP11	swd.rail	base.RP11	base of FRP	AT.FRP
	Line Number		A(VMKL)	B(VUKU)	B(VUKU)	B(VLBP)	B(VLBP)	B(VLBP)	B(VLBP)	B(VLBP)	-	-
	bearing		228°	-	221°	-	220°	220°	234°	-	230	232
* = new PK nail or other marker												
LOCATION:	on coastal rte 30, N of Olowalu and S of Lahaina											
LINE-UP-A	Palm at vegetation line (RP3) and power pole (rp1)											
LINE-UP-B	FRP palm and BRP on "W" tree											
Hor.Ref:	Intersection between sign and signpost (south side) of "swim at your own risk" sign											
RP#1	PK nail on "JAH" Telephone pole on LNDWD side of HWY on SE side of entrance to park											
RP#2	PK nail on palm at SWD edge of parking lot											
RP#3	PK nail on palm at vegetation line											
RP#4	Near GPS (<1m) in between boulders on top of breakwater											
RP#5	in crack near women's restroom, 1m W and 0.75m LNDWD of SE corner											
RP#6	PK nail at SWD top of asphalt curb at SE end of pkg.lot											
RP#7	GPS point 3-4m south of parking lot entrance on landward side of parking lot (MM7A)											
RP#8	PK nail in LNDWD shoulder, LNDWD side of highway											
RP#9	Chiseled "x" in black/gray flattish rock on middle of 3 rock walls/jetties: looking toward RR, small cluster of palms lines up with top peak of RR roof. Point is 0.033m NW of RP4											
RP#10	PK on flat landward side of palm tree ~.75m up from ground, 8th palm south of south end of rock seawall											
RP#11	PK at 1.7m at base of "W" limbs in landward tamarind tree (next to guardrail)											
RP#12	PK 1M LNDWD of SWD edge of old concrete path 7m SWD of 8th palm(FRP) S of S wall of breakwater (LLP3)											
RP#13	Center top of post of fence at south end of parking lot											
GPS1	RP7: VMKL (1/12/95), MM7A (7/7/97)											
GPS2	RP9: MKL2(?) (1/9/95?) Limited information on this point											
GPS3	RP12: MKL3/LBP3 (7/7/97)											
NOTES:												
1/9/95	GPS Survey.											
1/12/95	GPS Survey.											
7/7/97	GPS Survey.											
	GPS Positions	Longitude	Latitude	Elevation (meters above local tidal datum)								
	MM7A	-156.652573	20.843046	3.369								
	MLK3	-156.652420	20.842251	1.882								
	*Primary GPS for elevation control: RP12/GPS3/MKL3 = 1.882											
	**Primary reference point: RP11/BRP = 4.064											